

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017980

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12P21/06, C12N1/20// (C12N1/20, C12R1:01),
(C12N1/20, C12R1:38)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12P21/06, C12N1/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI (DIALOG), BIOSIS (DIALOG), JSTPlus (JOIS), REGISTRY (STN), CA (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>X</u> A	KANZAKI, H. et al., Novel Diketopiperazine Metabolism in a Microorganism: Two-Step Hydrolysis of Cyclo(Gly-Leu) to Amino Acids and Preliminary Characterization of Cyclo (Gly-Leu) Hydrolase and Dipeptidase. J.BIOSCI. BIOENG. 2000, Vol.89, No.6, pages 602 to 605	<u>1-11</u> 12
<u>X</u> A	Hiroshi KANZAKI et al., "Biseibutsu Yurai no Diketopiperazine-Kan Kagobutsu Taisha Koso ni yoru Seiri Kassei Busshitsu Seisan", Seibutsu Kogakkaishi 2001, Vol.79, No.3, pages 71 to 77	<u>1-11</u> 12

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
09 March, 2005 (09.03.05)

Date of mailing of the international search report
22 March, 2005 (22.03.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017980

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>Y</u> A	KANZAKI, H. et al., Microbial Hydrolysis of Diketopiperazines: Different Types of Diketopiperazine-Assimilating Bacteria. J.Ferment.Bioeng. 1997, Vol.83, No.4, pages 386 to 388	<u>1-11</u> 12
A	MURO, T. et al., Purification and Some Properties of Cyclo(Gly-Gly) Hydrolase from a Strain of Bacillus sp. No.106. Agric.Biol.Chem. 1985, Vol.49, No.6, pages 1567 to 1572	1-12
A	JP 62-208297 A (Ajinomoto Co., Inc.), 12 September, 1987 (12.09.87), & EP 220028 A & US 5179009 A & DE 3668910 G & KR 9505424 B1	1-12